

Figure 1

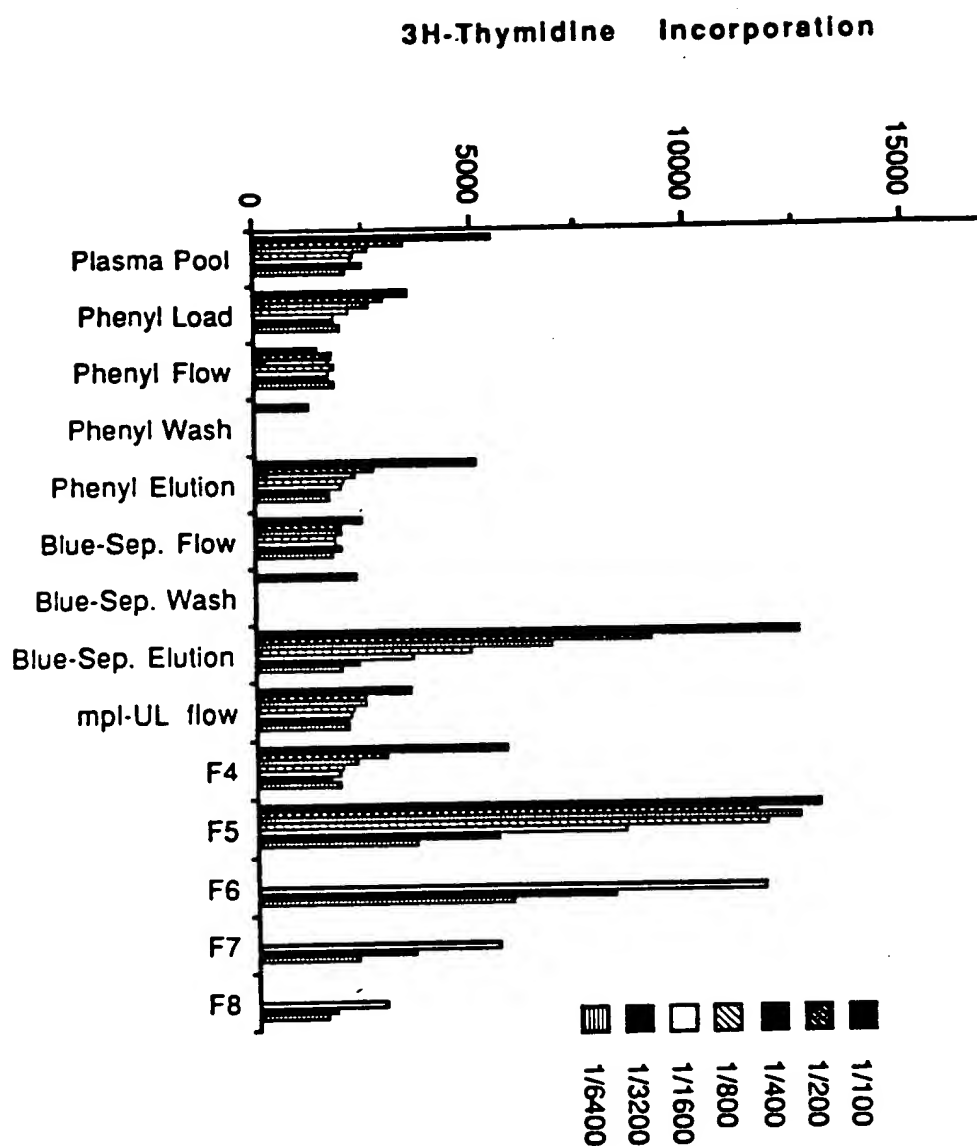


Figure 2

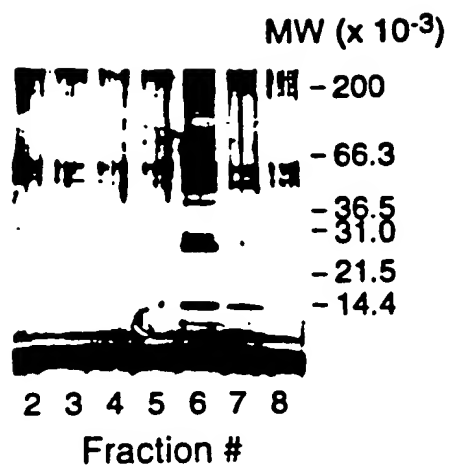
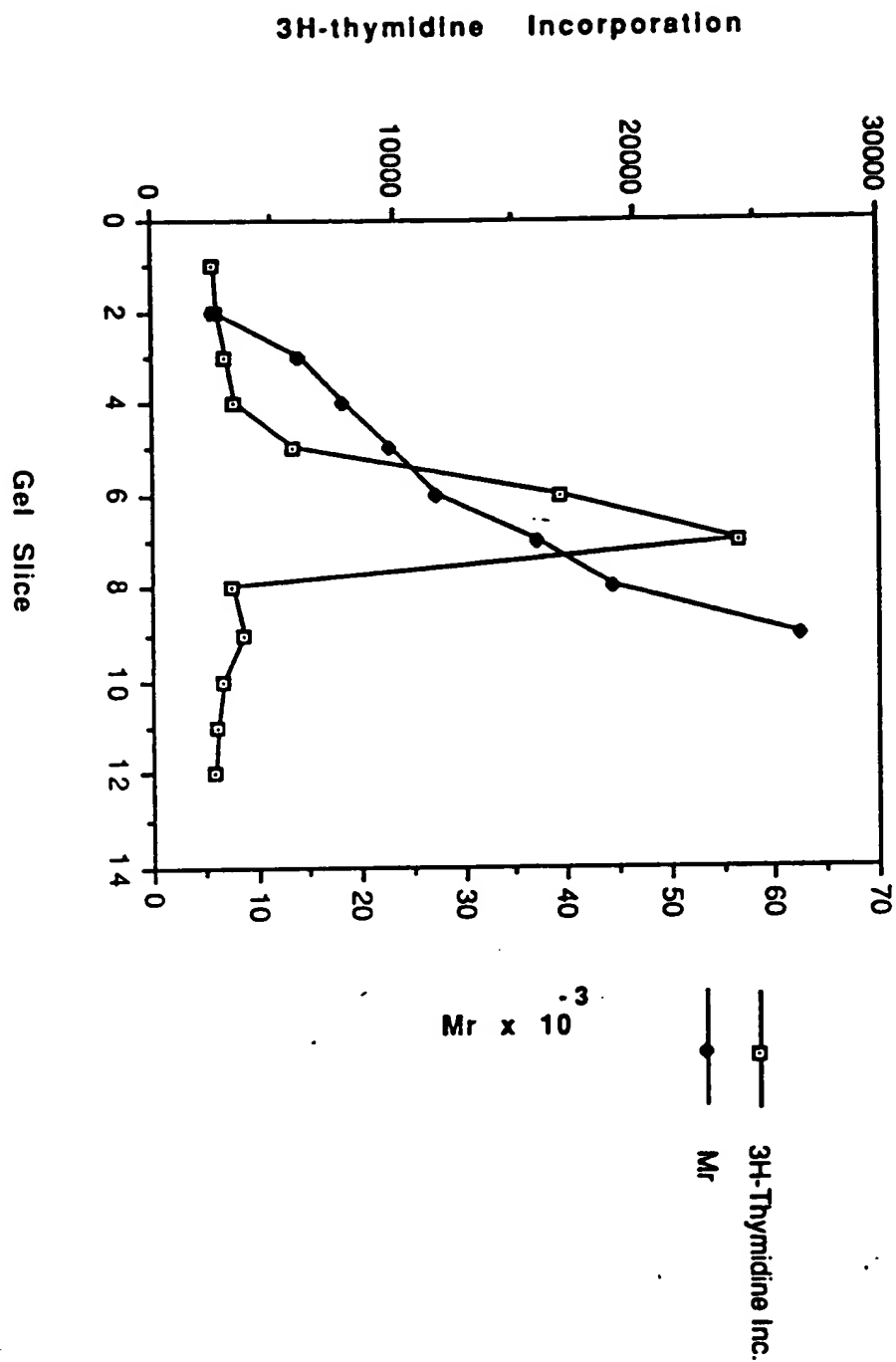


Figure 3



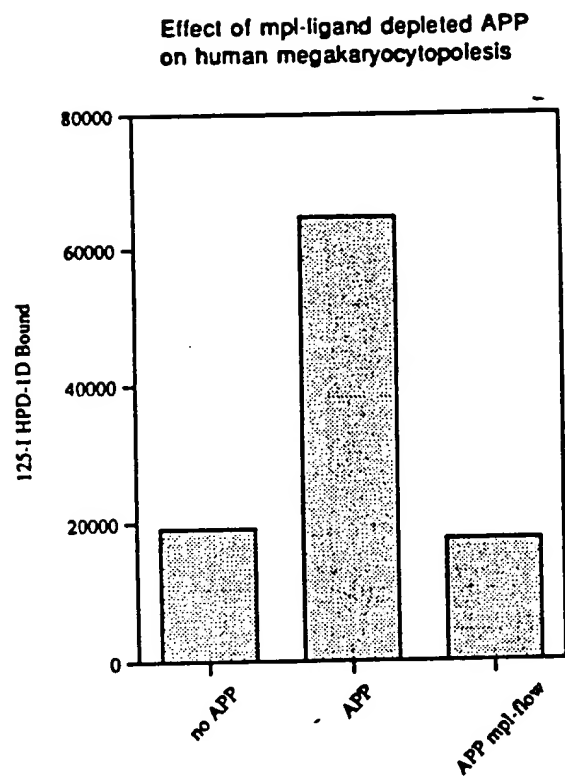


Figure 5

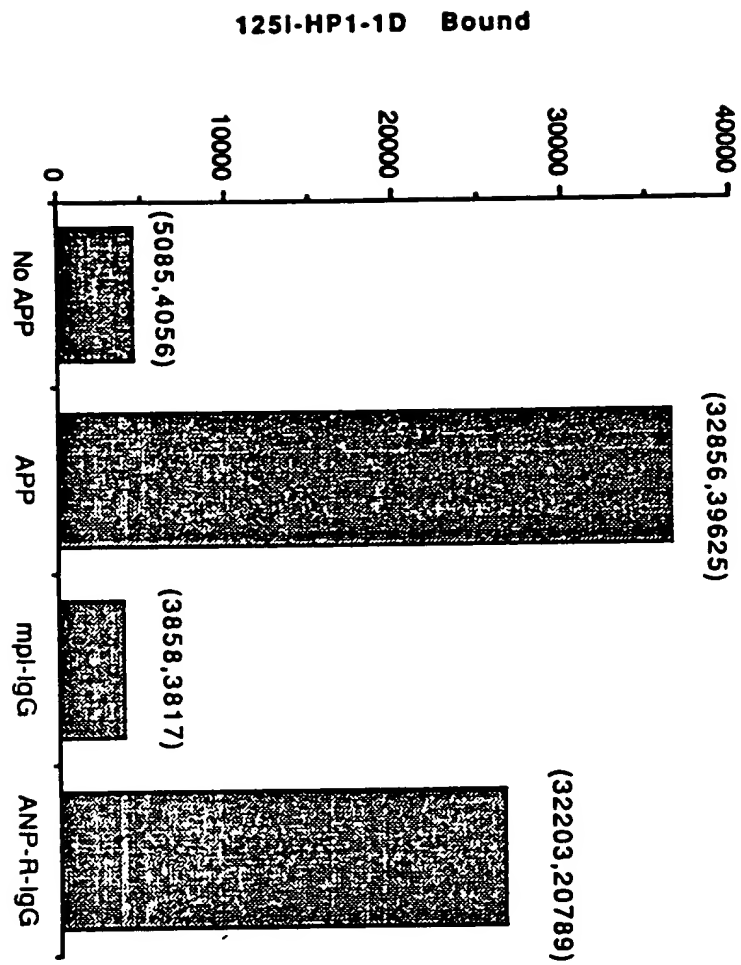


Figure 6

1 GAATTCCTGG AATACCAGCT GACAATGATT TCCTCCTCAT CTTTCAACCT CACCTCTCCT CATCTAAGAA TTGCTCCTCG TGGTCATGCT TCTCCTAACT  
 CTTAAGGACC TTATGGTCGA CTGTTACTAA AGGAGGAGTA GAAAGTTGGA GTGAGAGGGA GTAGATTCTT AACGAGGAGC ACCAGTACGA AGAGGATTGA  
 L L L L V V M L L L L T  
 ↓ L L L L V V M L L L L T  
 101 GCAAGGCTAA CGCTGTCCAG CCGGCTCCT CCTGCTGTG ACCTCCGACT CCTCAGTAA CTGCTTCGTG ACTCCCATGT CCTTCACAGC AGACTGGTGA  
 CGTTCGATT GCGACAGGTC GGGCCGAGGA GGACGAACAC TGGAGGCTCA GGAGTCATTT GACGAAGCAC TGAGGGTACA GGAAGTGTGC TCTGACCACT  
 A R L T L S S P A P P A C D L R V L S K L L R D S H V L H S R L  
 201 GAACTCCCAA CATTATCCCC TTTATCCGG TAACTGGTAA GACACCCATA CTCCCAGGAA GACACCATCA CTTCCTCTAA CTCCTTGACC CAATGACTAT  
 CTTGAGGCTT GTAATAGGGG AATAGGCGC ATTGACCATT CTGTGGGTAT GAGGTCCTT CTGTGGTAGT GAAGGAGATT GAGGAAGTGG GTTACTGATA  
 301 TCTTCCCAATA TTGTCCCCAC CTACTCTCA CACTCTCTGA CAAGAATTAT TCTTCACAAAT ACAGCCCGCA TTTAAAGCT CTCGTCTAGA  
 AGAAGGGTAT AACAGGGGTG GATGACTAGT GTGAGAGACT GTCTTTAATA AGAAGTGTTA TGTCCGGCGT AAATTTTCCA GAGCAGATCT

Figure 7

1 ttttctaccatctgtctccccagagggtcctgctgtgacattgggtctctggagcccttctccaccggatagattcctcacttggccgcctttg

101 cccacccctactctgccagaagtgaagagcctaagccgcctccatggccccaggaaggattcaggggagaggcccaaacaggagccacgccagcca

MetGluLeuThrGluLeuLeuValValMetLeuLeuThrAlaArgLeuThrLeuSerSerProAlaProProAlaCysAsp

201 gacaccccgccagaaTGGAGCTGACTGAATTGCTCCTCGTGGTCATGCTTCTCTAACTGCAAGGCTAACGCTGTCCAGCCCGGCTCCTCTGCTTGTG

LeuArgValLeuSerLysLeuLeuArgAspSerHisValLeuHisSerArgLeuSerGlnCysProGluValHisProLeuProThrProValLeuLeu

301 ACCTCCGAGTCTCAGTAAACTGCTTCTGTGACTCCCATGTCTTCACAGCAGACTGAGCCAGTGCCAGAGGTTACCCCTTTGCTTACACTGTCTCTGT

ProAlaValAspPheSerLeuGlyGluTrpLysThrGlnMetGluGluThrLysAlaGlnAspIleLeuGlyAlaValThrLeuLeuLeuGluGlyVal

401 GCCTGCTGTGGACTTTAGCTTGGGAGAATGGAACCCAGATGGAGGAGACCAAGGCACAGGACATTCTGGGAGCAGTGACCCCTTCTGCTGGAGGGAGTG

MetAlaAlaArgGlyGlnLeuGlyProThrCysLeuSerSerLeuLeuGlyGlnLeuSerGlyGlnValArgLeuLeuLeuGlyAlaLeuGlnSerLeuLeu

501 ATGGCAGCACGGGACAACCTGGGACCCACTTGCCTCTCATCCTCTCTGGGGAGCTTCTTGACAGGTCCGCTCTCTCTTGGGGCCCTGCAGAGCCTCC

GlyThrGlnLeuProProGlnGlyArgThrThrAlaHisLysAspProAsnAlaIlePheLeuSerPheGlnHisLeuLeuArgGlyLysValArgPhe

601 TTGGAACCCAGCTTCTCTCACAGGCAGGACCACAGCTCACAAGGATCCCAATGCCATCTTCTGAGCTTCCAACACCTGCTCCGAGGAAAGTGCGTTT

LeuMetLeuValGlyGlySerThrLeuCysValArgArgAlaProProThrThrAlaValProSerArgThrSerLeuValLeuThrLeuAsnGluLeu

701 CCTGATGCTTGTAGGAGGGTCCACCTCTGCGTCAGGCGGGCCCCACCCACCACAGCTGTCCCCAGCAGAACCTCTCTAGTCTCACACTGAACGAGCTC

ProAsnArgThrSerGlyLeuLeuGluThrAsnPheThrAlaSerAlaArgThrThrGlySerGlyLeuLeuLysTrpGlnGlnGlyPheArgAlaLysIle

801 CCAACAGGACTTCTGGATTGTTGGAGACAACTTCACCTGACCCAGCAACTACTGGCTCTGGGCTTCTGAAGTGGCAGCAGGGATTCTAGAGCCAAGA

ProGlyLeuLeuAsnGlnThrSerArgSerLeuAspGlnIleProGlyTyrLeuAsnArgIleHisGluLeuLeuAsnGlyThrArgGlyLeuPhePro

901 TTCTCGTCTGCTGAACCAACCTCCAGGTCCCTGGACCAATCCCCGGATACCTGAACAGGATACACGAACCTTGAATGGAACCTCGTGGACTCTTTCC

GlyProSerArgArgThrLeuGlyAlaProAspIleSerSerGlyThrSerAspThrGlySerLeuProProAsnLeuGlnProGlyTyrSerProSer

1001 TGGACCTTCACGCAGGACCTTAGGAGCCCCGGACATTTCCTCAGGAACATCAGACACAGGCTCCCTGCCACCAACCTCCAGCCTGGATATTCTCTTCC

ProThrHisProProThrGlyGlnTyrThrLeuPheProLeuProProThrLeuProThrProValValGlnLeuHisProLeuLeuProAspProSerAla

1101 CCAACCATCTCTCTACTGGACAGTATACGCTCTTCCCTCTTCCACCCACCTTGCCACCCCTGTGGTCCAGCTCCACCCCTGCTTCTGACCTTCTG

ProThrProThrProThrSerProLeuLeuAsnThrSerTyrThrHisSerGlnAsnLeuSerGlnGluGly

1201 CTCCAACGCCCCACCTTACCAGCCCTCTTCTAAACACATCTACACCCACTCCCAAGTCTGTCTCAGGAAGGGTAAGgttctcagacactgccgacatc

1301 agcattgtctcatgtacagctcccttccctgcaggcgcccttgggagacaactggacaagatttcttacttcttctgaaacccaagccctggtaaaa

1401 gggatcacaggactgaaaagggaatcatttttctactgtacattataaaccttcagaagctatttttttaagctatcagcaatctcatcagagcagcta

1501 gctcttttggctctatttttctgcagaaatttgcaactcactgattctctacatgtcttttttctgtgataactctgcaaggcctgggctggcctggcagtt

1601 gaacagagggagagactaaccttgagtcagaaaaacagagaagggttaatttcttctgcttcaaattcaaggccttccaacgccccatcccccttactat

1701 cattctcagtgggactctgatcccatattcttaacagatctttactcttgagaaatgaataagccttctctcagaaaaa

**Figure 8**



h-ML	1	S	P	A	P	A	C	D	L	R	V	L	S	K	L	R	D	S	H	V	L	H	S	R	L	S	Q	C	P	E	V	H	P	L	P	T	P	V	L	L	P	A	V	D	F	S	L	G	E	
h-epo	1	A	P	P	R	L	I	C	D	S	R	V	L	E	R	Y	L	E	A	K	E	A	E	N	I	T	T	G	C	A	E	H	C	S	L	N	E	N	I	T	V	P	D	T	K	V	N	F	Y	A
h-ML	51	W	K	T	O	M	E	E	T	K	A	O	D	I	L	G	A	V	T	L	L	E	G	V	M	A	A	R	G	O	L	G	P	T	C	L	S	-	-	S	L	G	O	L	S	G	O	V	R	
h-epo	51	W	K	R	M	E	V	G	O	O	A	V	E	V	M	O	G	L	A	L	L	E	A	V	L	R	G	O	A	L	L	V	N	S	S	O	P	W	E	P	L	O	L	H	V	D	K	A	V	
h-ML	99	L	L	-	-	L	G	A	L	Q	S	L	L	G	T	O	-	-	L	P	Q	G	R	T	T	A	H	K	D	P	N	A	I	F	L	S	F	Q	H	L	R	G	K	V	R	F	L			
h-epo	101	G	L	R	S	L	T	T	L	R	A	L	G	A	O	K	E	A	I	S	P	P	D	A	A	S	A	P	L	R	T	I	T	A	D	T	F	R	K	L	F	R	V	Y	S	N	F	L		
h-ML	143	-	-	M	L	V	G	G	S	T	L	C	V	R	R	A	P	P	T	T	A	V	P	S	R	T	S	L	V	L	T	L	N	E	L	P	N	R	T	S	G	L	L	E	T	N	F	T	A	S
h-epo	151	G	K	L	K	L	Y	T	G	E	A	C	R	T	G	D	R																																	
h-ML	191	R	T	T	G	S	G	L	L	K	W	O	O	G	F	R	A	K	I	P	G	L	L	N	O	T	S	R	S	L	D	O	I	P	G	Y	L	N	R	I	N	E	L	L	N	G	T	R	G	L
h-ML	241	P	G	P	S	R	R	T	L	G	A	P	D	I	S	S	G	T	S	D	T	G	S	L	P	P	N	L	O	P	G	Y	S	P	S	P	T	H	P	P	T	G	O	Y	T	L	F	P	L	P
h-ML	291	T	L	P	T	P	V	V	O	L	H	P	L	L	P	D	P	S	A	P	T	P	T	S	P	L	L	N	T	S	Y	T	H	S	O	N	L	S	O	E	G									

Figure 9

1 GAGTCTTGG CCCACTCTC TCCACCCGA CTCTGCCGA AGAGGACAG AGCTCAAGC GGCCTCATG GCCCCAGGA AGATTACGG GAGAGCCCC  
↓  
-10  
101 ATACAGGAG CCACTTCAGT TAGACACCT GGCAGAAAG GAGCTACTG GGCCTCATG GCCCCAGGA AGATTACGG GAGAGCCCC  
Met GluLeuThr splLeuLeu uAlaMet LeuLeuAla alAlaArgLe uThrLeuSer  
-20  
201 AGCCCGTAG CTCTGCCG TGCAGCCGA CTCTTAATA AACTCTCCG TCACTCCAC CTCTTACA GGCAGCTAG TCACTGCC GACTCCAGC  
SerProVala laProAlaCy aspProArg LeuLeuAnL yLeuLeuAr glapSerHis LeuLeuHis erArgLeuSe rGlnCysPro aspValaspPro  
30  
301 CTTTGTCTAT CCTGTCTG TGCCTCTG TGCCTCTG TGCCTCTG TGCCTCTG TGCCTCTG TGCCTCTG TGCCTCTG TGCCTCTG  
LeuSer11 eProValLeu LeuProAlaV alaspPheSe rLeuGlyGlu TrpLeuThrG InThrGluG nSerLyAla GlnAsp11eL euGlyAlaVal  
60  
401 GTCCCTTCTA CTGGAGGAG TGAATGGAG ACAGGACAG TTGGACCTT CCTGCTCTC ATCCCTCTG GACAGCTTT CTGGCAGGT TCCCTCTCTC  
70  
SerLeuLeu LeuGlyGlyV alMetAlaAl aArgGlyGln LeuGluProS erCysLeuSe rSerLeuLeu GlyGlnLeuS erGlyGlnVa lArgLeuLeu  
90  
501 TTGGGGGCC TCCAGGCCCT CCTAGGACCT CTTAGGACCT CACAGCTCA CAGGACCCC AATGCCCTT TCTTGAGCTT TCTTGAGCTT TCTTGAGCTT  
120  
LeuGlyAlaL euGlnGlyLe uLeuGlyThr GlnGlyArgT hrThrAlaHi slyAspPro AsnAlaLeuP helLeuSerLe uGlnGlnLeu LeuArgGlyLyA  
130  
601 AGGTGGCTT CTGCTCTG TGCAGGCTC CCACCTCTG TGTGAGGAG ACCCTGCCA CCACAGCTG TCCAGCAGT ACTTCTCAAC TCTTCACACT  
140  
ValArgPh eLeuLeuLeu ValGlyGlyP roThrLeuCy aValArgArg ThrLeuProT hrThrAlaVa lProSerSer ThrSerGlnL euLeuThrLeu  
150  
701 AACCAAGTTC CCAACACGA CTCTGCGATT GTTGAGAGG AACTTCAGT TCCAGGCGG AACTGCTGGC CTGCGACTTC TCCAGCAGCT TCCAGCAGTT  
160  
AsnLyPhe ProAsnArgT hrSerGlyLe uLeuGluThr AsnPheSerV alThrAlaAr gThrAlaGly ProGlyLeuL euserArgLe uGlnGlyPhe  
170  
ArgValLyAl lThrProDl yGlnLeuAn GlnThrSerA rgSerProVa lGln11eSer GlyThrLeuA snArgThrHi sGlyProVal AsnGlyThrHis  
180  
801 AGAGTCAGGA TTACTCTCG TCACTTCACT CAACTCTCA GGTCCCACT CCAATCTCT GGTACTCTCA XGAGGACGA CGAGCTCTG AATGAGACTC  
190  
GlyLeuPh eAlaGlyThr SerLeuGlnT hrLeuGluAl aSerAsp11e SerProGlyA laphenLy sGlySerLeu AlaPheAnL euGlnGlyLy  
200  
901 ATGGCTCTT TGGTGGACC TCACCTTACA CCTGGAGC CTCAGACATC TGGCCCGAG CTTTCACGA AGCTCCCTG GCATTCCACC TCCAGGCTG  
210  
LeuProPro SerProSerL euAlaProAs pdlyHisThr ProPheProp roSerProAl aleuProThr ThrHisGlyS erProProG lCTCCACCCA ACATAGCCG  
220  
1001 ACTTCTCTCT TCTCCAGCC TTGCTCTCA TGCACACACA CCTTCTCTC CTTACCTTC CTTGCCACC ACCATGAT CTCCACCCA GCTCCACCCC  
230  
LeuPheProA spProSerTh rThrMetPro AsnSerThra lProHisPr oValThrMet TyrProHisP roArgAnLe uSerGlnGlu Thr  
240  
1101 CTGTTTCTCT ACCCTTCCAC CACATGCTT AACTCTACG CCGCTCATCC AGTCACATG TACCTCTATC CCAGGAATTT GTCTCAGGA ACATAGCCG  
250  
1201 GGCAGTGGCC CAGTGAGCTT CTGAGCTTC TCTGGGAG AAGCTTCCC AGAGGAGCTG AGAGGAGCT GATCTCTC CAGATCTTCT GCTTTCACCT  
260  
1301 AAAAGGCCCT GGGAGAGGGA TACACAGCAC TGGAGATTGT AAAATTTTAG GAGCTATTTT TTTTAACTT ATCAGCAATA TTATCAGAG CAGCTAGGGA  
270  
1401 TCTTGGCTCT ATTTTGGTA TAAATTTGAA AATCACTAAT TCT

Figure 10

hML 1 SPAPACDLRVLSXLLROSHVLSRLSOCPEVHPLTPVLLPAVDFSLGE  
 mML 1 SPVAPACDPRLLNXLROSHLHSRLSOCPDVDPLSPVLLPAVDFSLGE

hML 51 WKTQWEETXAODILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRL  
 mML 51 WKTQTEOSXAODILGAVSLLLEGVMAARGQLEPSCLSSLLGQLSGQVRL

hML 101 LGALQSLLQTQLPPQGRTTAHKDPNAIFLSFOHLLRGKVRFLMLVGGSTL  
 mML 101 LGALQGLLGT...QGRTTAHKDPNALFLSLQOLLRGKVRFLLLVEGPTL

hML 151 CVRRAPPTTAVPSRTSLVLTNLHELPMRTSGLLETNFTASARTTGSGLLKW  
 mML 147 CVRRITLPTTAVPSSTSQLLTNLKFPMTSGLLETNFSVTARTAGPGLLSR

hML 201 OGFRAKIPGLNMTSRSLDQIPGYLMRIHELLNGTRGLFPGPSRRTL  
 mML 197 LOGFRVKITPGQLNMTSRSPVQISGYLMRTHGPNMGTHGLFAGTSLQTL

hML 250 APDISSGTSDTGSLPPNLOPGYSPSPTHNPTGOYTLPPLPTLPT...PV  
 mML 247 ASDISPGAFNKGSIAFNLOGGLPPSPSLAPDGH-TFPSPSPALPTTHGSP

hML 297 VOLHPLLPDPSAPTPTPTSPLLNTSYTHSONLSOEG  
 mML 296 POLHPLFPDPSITMPNSTAPHVPVTMYPHPRNLSOET

Figure 11

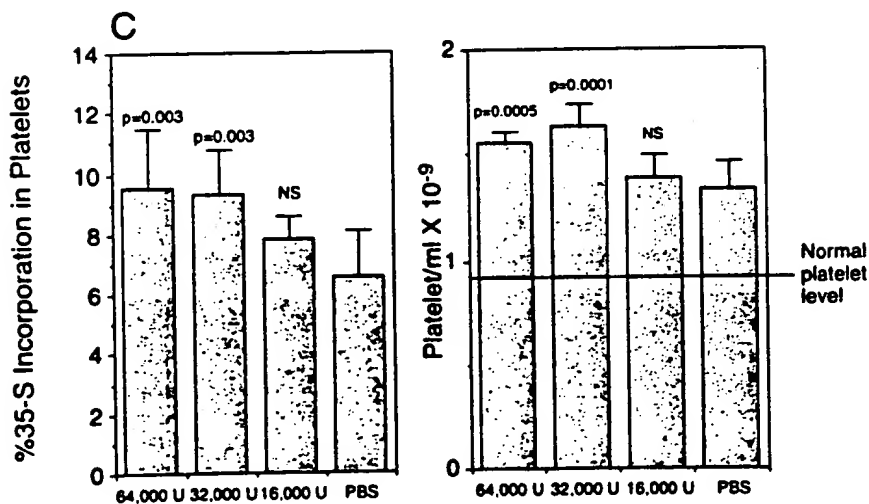
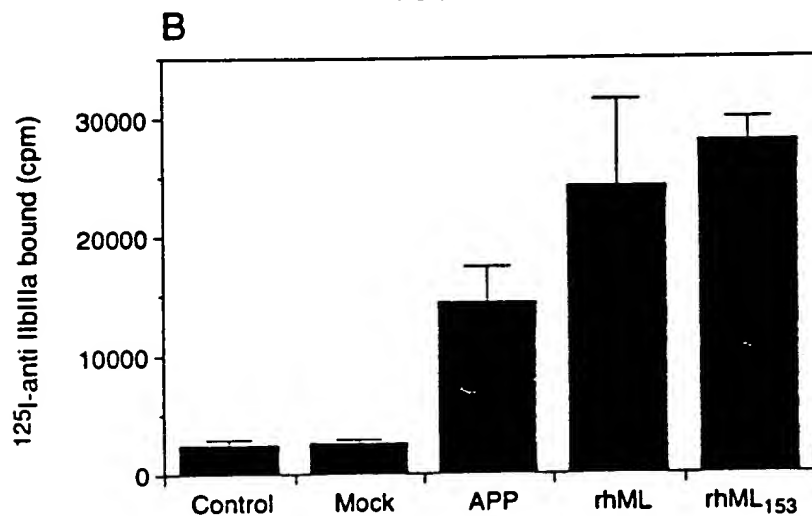
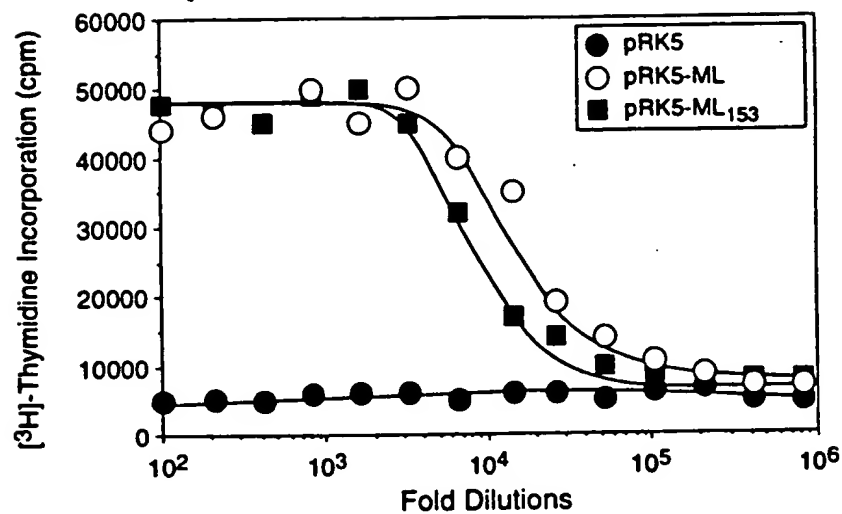


Figure 12